SUBJECT INDEX

Vol. 126A, Nos. 1-4

Acid secretion, 77 Adaptation, 17 Adipose tissue, 91

β-Adrenoceptor antagonists, 517 Adrenocortical stress response, 275

Aerobic, 143 Agamid, 275 Ageing, 85 Air breathing, 341 Alkaline phosphatase, 213 Anatomy, 153 Anemone, 33

Anoxia, 481 Antarctic, 153 Anthopleura, 33 AQP2, 305 Aquaporins, 305 Aragonite, 367

Arctic, 153 Arctic foxes, 287

ATP turnover, 481

Barnacle geese, 379

Bartter's, 305 Bat, 245 Bearded dragon, 275 Bimodal breathing, 341

Bimodal respiration, 57 Bioenergetics, 263

Biological transport, physiology, 527

Biomineralization, 367

Birds, 143 Bivalves, 1 Bivalvia, 367 Blood, 491 Blood pH, 223 Body composition, 295 Body size, 181 Bohr effect, 223 Bone sialoprotein, 213 Brain, 415

Branchiostegal lungs, 341

CAMP, 517 Capture stress, 275 Carbachol, 233 Carbon dioxide, 341 Carcass analysis, 295 Carnivore, 295

Carotenoids, 387 Cat, 85 Catfish, 517

Ca2+-transport, 263

Cell membrane potential, 251 Central pattern generator, 193

Cetaceans, 153, 181

Chasmagnathus granulatus, 341

Chiroptera, 45 Chloragocytes, 323 Chloragosomes, 323 Chromium oxide, 85 Citrate synthase, 245 Cnidarian, 33

Colon, 203 Comparative biochemistry and physiology, 435

Conductance decrease, 65 Confinement, 125 Confocal imaging, 213 Conformer, 397

Constipation, 203 Constraints, 161

CO2 release patterns, 539

Corticosterone, 275 Cortisol, 125 Crab, 341 Crawfish, 407 Crayfish, 407

Crocodilian evolution, 351 Cross correlation, 459

Crossed lamellar layer, 367

Crustacea, 407

Dampwood termites, 539

Decapod, 407

Digestive enzymes, 101

Diving, 143

Diving capacity, 181 Diving physiology, 153

Diving response mechanism, 435

Dopamine, 65 DRIFT, 367

Earthworms, 323 Electrolytes, 351 Electrophysiology, 65 Endothelial cells, 115 Energy, 295 Enzyme cascade, 17 Erythrocytes, 45 Euprymna scolopes, 471

Euryhalinity, 351 Evolution, 435

Excitation pattern, 17 Exhaustive exercise, 161

Fallow deer buck, 107

Fasciclin I, 33 Fasting, 161, 287 Fat, 295

Fatty acid composition, 107

Fatty acids, 387 Fatty infiltration, 107 Fatty liver, 91 Feces, 203 Feeding, 101, 415 Feline, 85 Fish, 415 Flight, 379 Flying fox, 45

Forced submergence, 57 Fractal Geometry, 491 Fractionation, 323 Free fatty-acid, 287 Fruit bat, 45

Fundic glands, 77

Gas exchange, 57, 341

Gastric emptying, 85 Gastrin, 233

Gastrointestinal transit time, 85

Gastropoda, 367

Gills, 491

GIP, 233

Gitelman's, 305

Glucose, 91

Glucose permeation, 45

Glucose transporter, 45

GLUT-1, 45

Glutamate, 115, 193, 527

Glutamine, 115, 527

Goose, 91

Growth hormone, 415

GRP, 233 Gull, 387

Handling, 125

Heart rate, 143, 223, 379

Hibernation, 245

Histamine stimulation, 77 Hormone, 407 **HPLC**, 367 Humans, 459 Hybrid, 125 Hydrothermal, 1 β-Hydroxybutyrate, 287 Hyper-osmotic, 351 Hypo-osmotic osmolality, 351

Hypoxia, 223, 481

Inhibition of acid, 77

Intracellular free Ca2+ concentration,

251

Intracellular Na+ and K+ activities, 251

Intracellular pH, 251 Intraspecific variability, 161

In vitro, 77, 233 Ion channel, 17 Ion channels, 481 Isolated frog kidneys, 251 Isotope dilution, 295

K⁺-dependence, 263

Kinosternon leucostomum, 57

Lactate, 125

Lactate dehydrogenase, 245

Leucine, 527 Liddle's, 305 Limits, 161

Lipid metabolism, 107 Lipid peroxidation, 251

Lipids, 91

Lipoprotein-lipase, 91

Liver, 107, 387 Lizard, 275 Locomotion, 193 Loperamide, 203

Lung, 491 Lysine, 527 Lysosomes, 323

Marine invertebrates, 263 Marine mammals, 153 Membranes, 481 Metabolism, 397, 481 Microscopy, 323 Migration, 379

Subject Index

Mink, 295 Mitochondria, 323, 481 Mollusk, 193 Mucosa, 203 Mucus, 203 Muscle cell, 245 Mustela vison, 295 Myoglobin, 143, 181 Mysticetes, 181

Nephrogenic diabetes insipidus, 305 Neural network, 193 Neuropeptide, 415 Nitric oxide, 115

Octanoic acid, 85 Octopamine, 65 Odontocetes, 181 Odorant receptor protein, 17 Odor discrimination, 17 Oocyte, 65 Oocyte maturation, 517 Organic phosphates, 223 Ornithine, 115 Osmoregulation, 351 Osteoblasts, 213 Osteocalcin, 213 Osteonectin, 213 Osteopontin, 213 Ovary, 407 Overfeeding, 91 Owls, 459 Oxidant injury, 251 Oxygen, 341 Oxygen consumption, 379

Oxygen radical scavengers, 251

Pacifastacus, 65 Pallid Sturgeon, 125 Paracrine function, 77 Parietal cells, 77 Pectoral muscle, 245 Penguin, 143 Perfusion, 203
Peroxisomes, 323
Phosphodiesterase inhibitors, 517
Phospholipids, 387
Phytophagy, 101
Pinniped, 435
Pogona barbata, 275
Polar, 153
Potassium conductance, 65
Predators, 101
Pressure, 143
Procambarus, 407
Protein, 295
Protein concentration, 245
Pyrroline-5-carboxylate, 115

Rat, 203 Red deer stag, 107 Reducing, 1 Regulator, 397 Repeatability, 397 Reproduction, 1 Reptile, 275 Reptiles, 57 Respiration, 223, 491, 539 Respiration rate, 397 Respiratory partitioning, 57 Retinyl esters, 387 Reverse-triiodothyronine, 287 Riluzole, 193 RNA concentration, 245 Rutting season, 107

Scaphirhynchus, 125
Sea cucumber, 263
Second messenger, 17
SERCA-ATPase, 263
Serotonin, 65
Sheep, 233
Sheet-flow, 491
Shunt, 223
Size, 161

Salt glands, 351

Skeletal organic matrices, 367
Skin, 491
Small intestine, 527
Smooth muscle, 263
Sodium-independent, 527
Somatostatin, 77, 233
Sound localization, 459
Stable isotope, 85
Staurotypus triporcatus, 57
Stress, 125
Svalbard, 287
Swimming, 193
Symbiosis, 33, 471
Synapse, 193

Teleost, 397
Temperature, 143, 161
Temperature modulation, 539
Termites, 539
Termopsidae, 539
Thyroxin, 287
Tissues, 387
Total lipid, 107
Training, 161
Transduction, 17
Triglycerides, 387
Triiodothyronine, 287
Turtle, 57, 223
Type I collagen, 213

Uncoupling by ATP, 263

Vibrio fischeri, 471 VIP, 233 Vitellogenesis, 407 VLDL, 91

Wind tunnel, 379

Zoophagy, 101 Zootermopsis nevadensis, 539 Zooxanthellae, 33

AUTHOR INDEX

Vol. 126A, Nos. 1-4

Aanestad, M., 287 Altimiras, J., 223 Amey, A. P., 275 André, J.-M., 91 Ansaldo, M., 341 Appel, A. G., 539 Azerkan, L., 77

Bagatto, B., 57
Baqri, S. S. R., 517
Barton, B. A., 125
Bengtsson, P., 77
Beninger, P. G., 1
Berg, J. P., 287
Bernier, N. J., 415
Bevan, R. M., 379
Bollig, H., 125
Boutilier, R. G., 481
Butler, P. J., 379
Butt, A. G., 305

Candy, E. J., 233 Castellini, M., 153 Cemerikic, D., 251 Chaves, A. R., 407 Choi, I.-H., 245 Cohen, A. C., 101 Craik, J. D., 45 Cree, A., 275

Dauphin, Y., 367 Davail, S., 91 Dawson, J. M., 85 de Meis, L., 263 Denis, A., 367

Elsner, R., 135, 137

Fago, A., 223 Folk, G. E., Jr, 135 Frische, S., 223 Fuglei, E., 287

Galina, A., 263 Gay, C. V., 213 Grøndahl, M. L., 527 Guy, G., 91 Gwag, B. J., 245

Haider, S., 517

Halperin, J., 341 Hamilton, K. L., 305 Harper, E. J., 85 Hase, T., 203 Hauskins, B. L., 125 Haynes, T. E., 115 Henry, R. P., 57 Hermier, D., 91 Hochachka, P. W., 435 Hoo-Paris, R., 91 Husvéth, F., 107

Iverson, S. J., 295

Jansen, C. R., 125 Jennings, P., 263 Jung, N.-P., 245

Kieffer, J. D., 161 Kim, M. H., 245 Konishi, M., 459 Kooyman, G. L., 143

Landeira-Fernandez, A. M., 263 Lawton, D. E. B., 233 Layton, H. N., 295 Le Pennec, M., 1 Leslie, A. J., 351 Li, H., 115 Lin, X., 415 Luan, Y. J., 213 Lundqvist, G., 77 Luquet, C. M., 341

Maina, J. N., 491
Mårdh, S., 77
Markovich, D., 45
McFall-Ngai, M. J., 471
Meguro, S., 203
Meininger, C. J., 115
Melarange, R., 65
Montero-Lomeli, M., 263
Munck, B. G., 527
Munck, L. K., 527

Nakamura, T., 17 Narnaware, Y., 415 Nilsson, G., 77 Noren, S. R., 181 Oh, Y. K., 245

Panchin, Y. V., 193
Park, K., 245
Peachey, S. E., 85
Peeters-Joris, C., 323
Pellerano, G. N., 341
Peter, R. E., 415
Petrovic, S., 251
Peyon, P., 415
Ponganis, P. J., 143
Praul, C. A., 213

Rees, B. B., 397 Reynolds, W. S., 33 Rouvinen-Watt, K. I., 295 Royle, N. J., 387

Sadreyev, R. I., 193
Sakata, T., 203
Schwarz, J. A., 33
Shelton, T. G., 539
Shimotoyodome, A., 203
Shin, H.-C., 245
Simcock, D. C., 233
Simpson, H. V., 233
Skadhauge, E., 527
Skorupski, P., 65
Sparks, N. H. C., 387
Spotila, J. R., 351
Stephenson, R., 379
St-Pierre, J., 481
Surai, P. F., 387

Thorbøll, J. E., 527 Tokimitsu, I., 203

Virani, N. A., 397 Volkoff, H., 415

Weis, V. M., 33 Whittier, J. M., 275 Williams, T. M., 181 Woakes, A. J., 379 Wu, G., 115

Zeng, F., 101 Zomborszky, Z., 107

